

	%	Morse Code	Huffman Code
A	6.22	. -	1011
B	1.32	- ...	010100
C	3.11	- . - .	10101
D	2.97	- . .	01011
E	10.53	.	001
F	1.68	. . - .	110001
G	1.65	- .	110000
H	3.63	11001
I	6.14	..	1001
J	0.06	. ---	01010111011
K	0.31	- . -	01010110
L	3.07	. - . .	10100
M	2.48	- -	00011
N	5.73	- .	0100
O	6.06	---	1000
P	1.87	. - .	00000
Q	0.10	- . -	0101011100
R	5.87	. - .	0111
S	5.81	...	0110
T	7.68	-	1101
U	2.27	. . -	00010
V	0.70	. . . -	0101010
W	1.13	. - -	000011
X	0.25	- . . -	010101111
Y	1.07	- . - -	000010
Z	0.06	- . .	0101011101011

Figure 6.19 Morse and Huffman Code Table

Morse and Huffman Codes for American-Roman Alphabet. The % column indicates the average probability (expressed in percent) of the letter occurring in English. The entropy $H(A)$ of the this source is 4.14 bits. The average Morse codeword length is 2.5 symbols. Adding one more symbol for the letter separator and converting to bits yields an average codeword length of 5.56 bits. The average Huffman codeword length is 4.35 bits.